

Title (en)
A METHOD FOR PRODUCING FUNCTIONALIZED CIS-1,4POLYDIENES HAVING HIGH CIS-1,4-LINKAGE CONTENT AND HIGH FUNCTIONALITY

Title (de)
VERFAHREN ZUR HERSTELLUNG VON FUNKTIONALISIERTEN CIS-1,4-POLYDIENEN MIT HOHEM 1,4-BINDUNGSGEHALT UND HOHER FUNKTIONALITÄT

Title (fr)
PROCÉDÉ DE PRODUCTION DE POLYDIÈNES CIS- 1,4 FONCTIONNALISÉS AYANT UN FORT CONTENU DE LIAISON CIS-1,4 ET UNE FONCTIONNALITÉ ÉLEVÉE

Publication
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Application
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US 87753506 P 20061228

Abstract (en)
[origin: EP1939221A2] This invention relates to a method for producing functionalized cis-1,4-polydienes having a combination of a high cis-1,4-linkage content and a high functionality, the resulting polymers and the vulcanized products containing the polymers. The functionalized cis-1,4-polydienes of the present invention are produced by a method comprising the steps of: (1) preparing a reactive polymer by polymerizing conjugated diene monomer with a lanthanide-based catalyst in the presence of less than 20% by weight of organic solvent based on the total weight of monomer, organic solvent, and resulting polymer, where the lanthanide-based catalyst is the combination of or reaction product of (a) a lanthanide compound, (b) an aluminoxane, (c) an organoaluminum compound other than an aluminoxane, and (d) a halogen-containing compound; and (2) contacting the reactive polymer with a functionalizing agent.

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